

3 of said motor, and an angular position detector secured to a shaft extension of said  
4 motor, said angular position detector being a magnetic encoder.

### REMARKS

The abstract and drawings have been amended in accordance with Examiner's suggestions. No new matter is entered.

The claims have also been amended to overcome the Examiner's rejection. The amended claims are supported by the originally filed drawings, specification, and claims.

U.S. Patent 4,417,185 to Bullat discloses a drive system for roll-up shades provided with an emergency mechanism to be operated in the event of a current supply failure. Bullat does not disclose a three phase asynchronous electric motor comprising at least four poles.

U.S. Patent 5,729,102 to Gotou discloses the driving means for a brushless motor. A brushless motor is a synchronous electric motor with permanent magnets.

Neither reference discloses the combination of a three phase asynchronous electric motor comprising at least four poles for driving a roll-up shade. Three phase asynchronous motors are typically used in large horsepower applications where accurate control is not of concern. Thus, Bullat and Gotou do not anticipate the claims, nor is it unobvious to combine Bullat and Gotou to arrive at the structure of the claims of the present invention.

All rejections and objections made by the Examiner have been met by amendment to the specification, claims and submission of formal drawings.

#### **Information Disclosure Statement 37 CFR 1.98 and 37 CFR 1.97 e 1**

Certain items of informaton marked with an asterisk contained in the enclosed information disclosure statement were cited in a communication from a foreign patent office in a counerpart foreign application not more than three months prior to the filing of the enclosed information disclosure statement contained herewith.

Other items of information (unmarked) in said information disclosure statement were cited in the application, but copies thereof were not enclosed with the application.

The Examiner is respectfully requested to consider all items of information in the



Enclosed Information Disclosure Statement.

### FEE CALCULATION.

No independent or dependent claims are added.

A one month extension of time under 37 CFR 1.17 a 1 for response is respectfully requested. Fee \$ 55.00

Submission of an Information Disclosure statement under 37 CFR 1.17 p Fee \$ 180.00

Total: \$ 235.00

A check in the amount of \$ 235.00 is enclosed.

In the event this check is unacceptable and/or insufficient to cover the required fees, or omitted, please charge or credit Account No. 09-0625.

Favorable reconsideration of this application as amended is respectfully requested.

Respectfully submitted,

 JAN 7, 2003

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Attorney Docket Number: Astengo-9212

**In the United States Patent and Trademark Office**

In Re application of:

**Serial Number :** 09 / 816,267

**Inventor:** Paolo Astengo

**Filed:** March 23, 2001

**For:** Drive for a roller shutter winding tube

**Examiner:** Thanh Lam

**Group Art Unit:** 2834

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**MARKED UP CLAIMS PER 37 CFR 1.121 (c) (ii)**

1 1.(amended) A control device for rotating a tube supporting a roller member to  
2 be wound onto or unwound from said tube, said device comprising at least an  
3 electric motor housed in said supporting tube and drive means comprising a re-  
4 duction gear unit for transmitting the rotation from said motor to said support-  
5 ing tube, wherein said electric motor is a three phase asynchronous electric motor  
6 [comprises]comprising at least four poles[.] and said drive means comprises  
7 a single stage mechanical reduction gear.

2.(amended) A control device as claimed in claim 1 wherein said electric motor  
is a three-phase electric motor and said device incorporates an electronic unit for  
supplying electric power in a controlled manner to said motor.

3. Cancel

1 4. A control device as claimed in the claim [3] 1, wherein said single stage mechanical  
2 reduction gear is a planocentric reduction gear comprising a ring gear provided with  
3 a given number of teeth, eccentrically and idly mounted on the output shaft of  
4 said motor and connected to the output shaft of said reduction gear, said gear  
5 wheel meshing with the internal teeth of a stationary ring gear, the number of said  
6 internal teeth being greater than said given number number of teeth on said ring

7 gear by one tooth.



5. Cancel

1 10. A control device as claimed in claim 1, wherein said control device has an eddy  
2 current brake device of the flux deviation type comprising a mobile part consisting  
3 of an iron cylinder [(51)], to the end of which a disk is fastened for supporting an  
4 annular clutch member pushed against a stationary contrast surface by a spring  
5 seated in a seat formed in the rotor of said motor, said rotor having a short circuit  
6 ring.

1 11. A control device as claimed in claim 1, said control device further comprising an  
2 eddy-current brake of the flux deviation type, coaxial to and partially housed inside  
3 of said motor, and an angular position detector secured to a shaft extension of said  
4 motor, said angular position detector being a magnetic[al] encoder.